

operating manual *and*

parts list

MODEL 2280-2
20 INCH
ROTARY MOWER



YARD-MAN

1410 West Ganson Street — Jackson, Michigan 49202

RULES FOR SAFE OPERATION

Your rotary mower is a precision piece of power equipment. Engineering skill and experience have been combined to provide the ultimate in safety and efficiency, however, as with any type of power equipment, carelessness or error on the part of the operator can result in injury. Exercise extreme caution at all times.

1. **KNOW YOUR MACHINE** Read the Owner's Manual and Engine Manual carefully—learn how to operate your mower properly.
2. **MAKE SURE THE LAWN IS CLEAR** of sticks, stones, wire and other hazardous items from lawn before mowing. Such items are dangerous to both the mower and individuals in the vicinity of the mower.
3. **ADD FUEL BEFORE STARTING ENGINE**—never when engine is hot or running.
4. **ALWAYS STOP ENGINE** and disconnect sparkplug wire before attempting any repairs or adjustments.
5. **START THE ENGINE CAREFULLY**—Always stand at side opposite discharge chute. **NEVER** place hands or feet under mower or near discharge chute while engine is running.
6. **DO NOT TILT MOWER** at extreme angle while engine is running. Cut grass on hills and banks sideways.
7. **STOP THE ENGINE** when not cutting grass.
8. **DO NOT ALLOW MINORS** to operate mower unless thoroughly instructed and properly supervised.
9. **KEEP CHILDREN AND PETS AWAY** from area at all times during mowing operation.
10. **ALWAYS CHECK FOR DAMAGE** If you should strike some foreign object while mowing, stop your mower. Inspect for and repair any damage before restarting and operating the mower.

SUGGESTIONS FOR MORE EFFICIENT, AND MAINTENANCE-FREE OPERATION

GENERAL MOWING

1. Always keep mower blade "Knife" sharp and balanced for maximum cutting efficiency.
2. Always start engine with mower on level surface where blade will not drag on tall grass or other obstructions. After starting, let engine warm up several minutes at slow speed before starting to mow.
3. When mowing under normal conditions, run mower at $\frac{1}{2}$ to $\frac{3}{4}$ throttle for best results.
4. When cutting tall heavy growth, or on rough ground, place mower in highest cut position and gradually reduce to desired cutting height over course of two or three mowings.
5. When cutting tall heavy lush grass the clippings may have a tendency to stick to the underside of the housing. Always keep underside of housing clean.

USING GRASS CATCHER

1. When using grass catcher, operate mower engine at $\frac{3}{4}$ to full throttle.
2. In heavy dense turf, set cutting height in medium to high position and mow in a counter-clockwise direction so the catcher will not drag in the uncut portion.
3. Allow wet grass to dry before attempting to mow with grass catcher attached.
4. Empty catcher bag thoroughly before storage.

MAINTENANCE

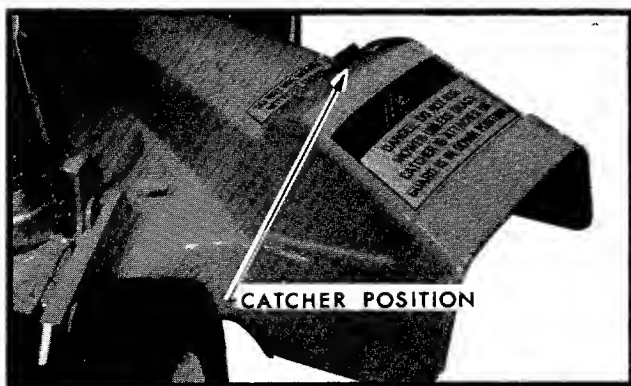
Your mower like all machines with moving parts must receive care and maintenance. The following tips, if used, will contribute many trouble-free hours to your mower.

1. Check oil level frequently. When checking or changing oil, make sure dirt and debris is cleaned away from the oil fill cap before removing oil plug.
2. Keep mower clean, especially the engine and underside of mower housing. See washout port.
3. Check all nuts, bolts and screws occasionally to be sure mower is in good operating condition.
4. Should excessive vibration develop, check your blade and crankshaft immediately. Do not operate mower with an unbalanced blade, a damaged blade or a damaged crankshaft.
5. The wheel bearings are pre-lubricated at the factory and should require no further attention until mower is serviced.
6. If you are going to store your mower for any length of time (30 days or longer) it is important that the following steps be taken:
 - a. Drain the gas tank. Start the engine and allow it to run out of gas. Gasoline left in the engine will leave gum deposits in the carburetor and gas tank.
 - b. Clean engine of all foreign matter.
 - c. Lubricate cylinder by removing the sparkplug and pouring one ounce of clean lubricating oil through the sparkplug hole into the cylinder. Crank engine slowly to spread oil and replace sparkplug. To start after storage remove sparkplug and rotate engine with starter to remove excess oil.
7. Just as your automobile needs professional mechanical maintenance from time to time, so does your air cooled engine. A yearly tune-up and check by a Qualified Service Center is recommended to avoid breakdowns and unnecessary delays during the cutting season.

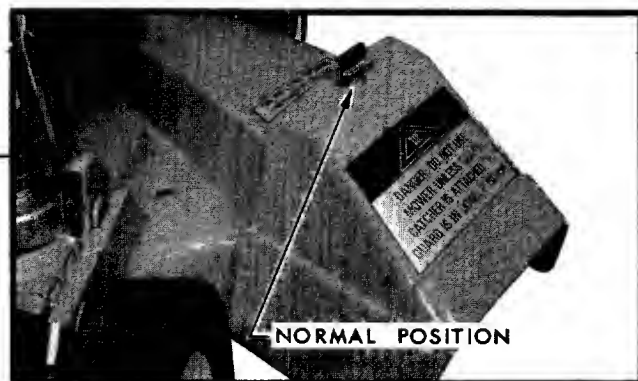
MISSILE DEFLECTOR

The missile deflector and foot guard are intended to add to the safety of the mower by deflecting objects thrown out the discharge chute and from under the housing, in a downward direction. It is important that the deflector and guard are in the proper position at all times. To change positions of the deflector, press the spring lever to free the deflector, move to the desired location then release the lever.

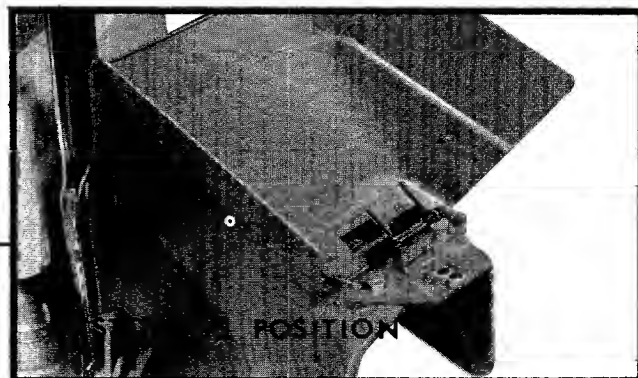
NORMAL OPERATING POSITION: When operating your mower without the grass catcher the deflector should be in the normal operating position as shown.



STORAGE POSITION: This position is to be used only when storing your mower or for ease in transporting your mower in another vehicle. Take care not to operate your mower with the deflector in this position.



CATCHER POSITION: When using the grass catcher, the deflector must be in the position as shown. The catcher mounting bracket is shown installed, for details showing how to install and use the Yard-Man Grass Catcher see the instruction sheet packed with the catcher.



PREPARING YOUR YARD-MAN MOWER FOR USE

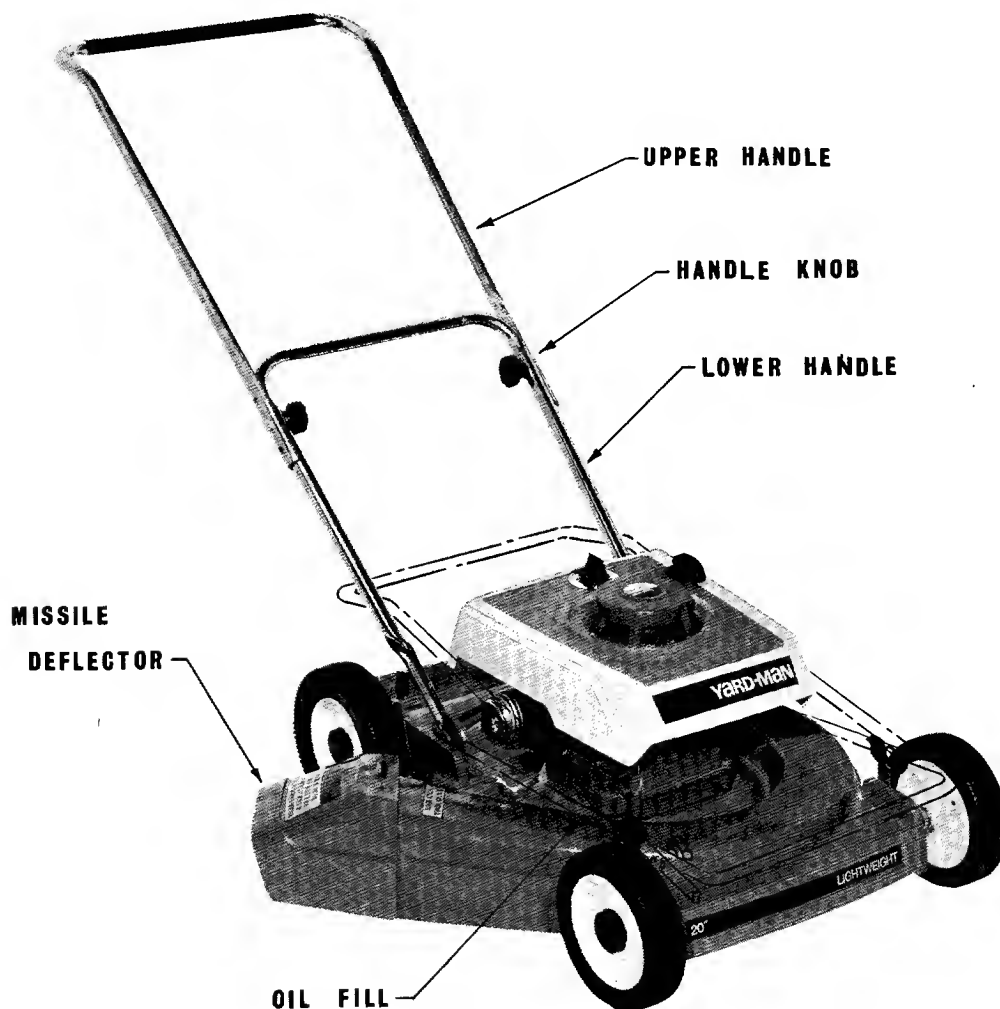
SET-UP

Your mower is shipped in one carton, completely assembled with the handle assembly, foot guard and missile deflector in the shipping or storage position. Use care and caution in removing your mower from the carton. **DO NOT** attempt to lift the unit by the engine shroud.

To place the handle in operating position, lift the handle assembly until the lower section snaps into the operating position as shown. The upper section can now be fitted into place. Fasten the upper and lower sections together with the handle mounting knobs.

NOTE: When folding handle for storage, make sure the handle knobs are loose enough to allow the upper section to pivot freely.

CAUTION: Care should be taken not to force the deflector from the storage position to the catcher position without first guiding the spring lever into the clearance hole in the deflector. To do this, it may be necessary to place your hand on the underside of the deflector. First remove the sparkplug wire and fasten it at least one inch (1") away from the sparkplug. Never place your hands or feet under the deflector or near the discharge opening with the engine running.



BEFORE STARTING ENGINE

Remove oil fill plug and fill the crankcase with S.A.E. No. 30 oil. (1¼ pints approx.)

Fill fuel tank completely full with a good grade regular clean, fresh gasoline. **DO NOT MIX OIL WITH GASOLINE.** FOR COMPLETE ENGINE INFORMATION, READ ENGINE INSTRUCTION BOOKLET BEFORE STARTING ENGINE.

TO START ENGINE

1. Place throttle control knob in **HEAVY** or **NORMAL** cutting position.
2. While standing at the left side of the mower, opposite the discharge chute, pull the starter rope with a quick full stroke. Repeat if necessary.
3. When engine starts, move throttle control knob to slow speed until engine warms up.

NOTE: If engine floods, place throttle control knob in "Stop Position." Pull starter rope at least 4 times. This will clear the engine of excess gas. Then reposition control lever to normal cutting position and follow the suggested starting procedure.

Engine flooding is usually caused by a dirty air cleaner. **Service air cleaner regularly as noted in engine instruction manual.**

If engine continues to flood even with a clean air filter, lean carburetor adjustment screw 1/8 turn. (See engine instructions)

BREAK-IN PERIOD

During the first ten hours of operation, check the following items frequently:

- Oil Level
- All nuts, bolts and screws for tightness
- Condition of Blade

TO ADJUST HEIGHT OF CUT

The cutting height of your mower can easily be adjusted from low to high cut. Place your hand on the outside of the wheel, spring the adjusting lever, with your thumb, outward until the locating trunnion on the lever is free from the housing. Move the wheel and lever to the height of cut desired. Release the lever, allowing the trunnion to drop into the proper locating hole.

CAUTION: Do not make adjustments with the engine running.

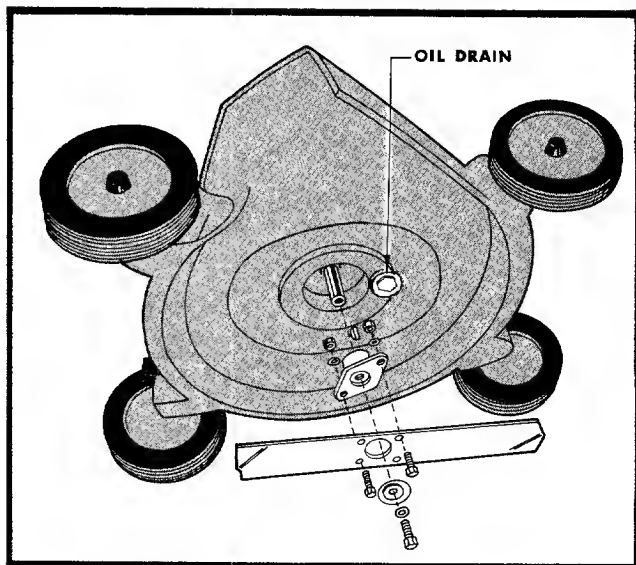
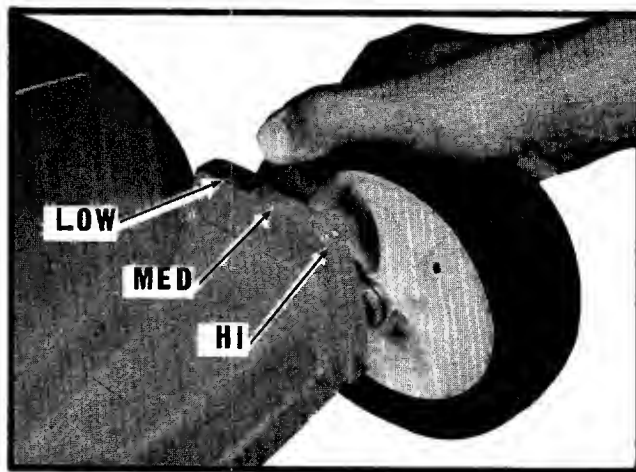
TO CHANGE OIL

Engine oil should be changed after the first 5 hours of operation and each 25 hours of operation thereafter.

Drain oil while engine is warm. Disconnect spark plug wire and secure at least 1" away from spark plug. Block right hand side of mower up about 4" high and set shallow one quart container beneath oil drain. Remove oil drain plug from sump and allow oil to drain completely. Replace plug and refill with S.A.E. #30 oil. (1 1/4 pints approx.)

TO REPLACE BLADE

1. Be sure engine is stopped, disconnect spark plug wire and secure at least 1" away from spark plug.
2. Tip mower on the side and remove the blade and adaptor from engine crank.
3. Remove the blade from the adaptor and replace with a new blade. Reassemble to engine.
4. Resharpening of an old blade should only be attempted by a qualified service center. This way proper blade balance will be maintained.



Exploded view diagram of a mechanical device, likely a portable power tool or pump. The diagram shows the main body (1) with various components labeled with numbers 1 through 55. The components include:

- Top Cover/Head:** 13, 14, 15, 16, 39.
- Handle Assembly:** 17, 18, 19, 20, 21.
- Internal Components:** 10, 11, 12, 40, 43, 44, 45, 46, 47, 48.
- Wheels/Tires:** 2, 3, 4, 5, 6, 7, 8, 9, 27, 55.
- Internal Assembly (Right):** 22, 23, 24, 25, 26, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 41, 42, 53.
- Internal Assembly (Left):** 2, 3, 4, 5, 6, 7, 8, 9, 27, 55.
- Internal Assembly (Bottom):** 49, 50, 51, 52, 54.

ALL UN-NUMBERED PARTS
SEE CHANGELIST LISTING

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PARTS LIST

MODEL 2280-2

When ordering parts listed as L.H. or R.H.—determine the left or right hand side of your mower by standing behind the unit as you mow.

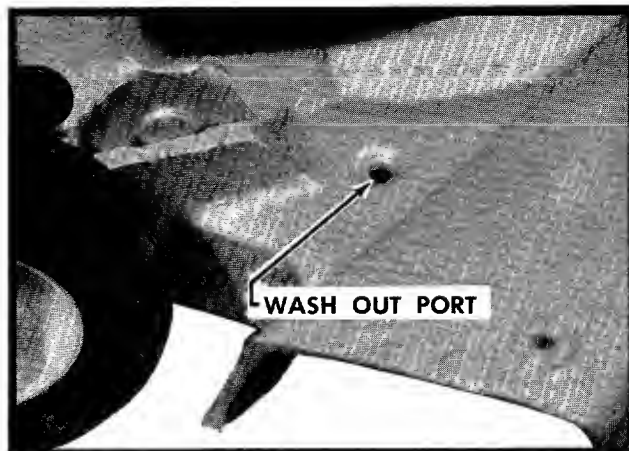
REF. NO.	PART NO.	NAME OF PART	REF. NO.	PART NO.	NAME OF PART
1	5601-167-55	Blade Housing	28	2108-187-41	Ass'y—Rear Axle (R.H.)
2	1540-86	Washer ($\frac{1}{2}$ x 1.0 x $\frac{1}{8}$)	29	1616-343	Label—Caution
3	1540-90	*Washer ($\frac{1}{2}$ x 1.0 x .030)	30	2123-30	Ass'y—Front Axle (R.H.)
4	1552-2	*Washer—Wave	31	1538-8	*Nut ($\frac{1}{4}$ -20 Hex Hd. Lock)
5	2123-31	Ass'y—Front Axle L.H.	32	1143-5-55	Ass'y—Blade Adaptor
6	2674-39-40	Hub Cap	33	1646-8	Key (#6 Woodruff)
7	1650-1	Retaining Ring	34	3604-39-55	Blade—Grass
8	2108-183-41	Ass'y—Wheel & Tire (7 x 1.75) ..	35	1509-34	*Bolt ($\frac{1}{4}$ -20 x $\frac{3}{4}$ Hex Hd.)
9	2123-55	Ass'y—Rear Axle (L.H.)	36	1543-39	Washer—Special
10	1538-6	*Nut—Lock (5/16-18 Hex)	37	1542-8	*Lockwasher ($\frac{3}{8}$ Split)
11	1509-75	*Bolt (5/16-18 x $1\frac{1}{2}$ Hex Hd.)	38	1509-101	*Bolt ($\frac{3}{8}$ -24 x $1\frac{1}{8}$ Hex Hd. Lock) ..
12		Ass'y—Engine Briggs & Stratton Model 92902—Type 0984-02 ..	39	2643-44	Knob—Throttle Control
13	2616-564	Label—Engine Shroud	40	41-046	Washer (11/32 x $\frac{7}{8}$ x 3/32)
14	4699-95	Shroud—Engine	41	1624-135	Washer ($\frac{3}{8}$ x 1.0 x .210)
15	1526-1	Screw—Shroud Retaining	42	1529-15	Bolt ($\frac{1}{4}$ -20 x $\frac{5}{8}$ Carriage)
16	1616-297	Label—Dial Control	43	1556-22	Deflector
17	1513-103	Bolt (5/16-18 x $1\frac{3}{4}$ Special)	44	1511-34	Screw (#8-32 x $\frac{1}{2}$ Rd. Hd.)
18	1025	Washer (5/16 Split Lock)	45	2132-87-55	Ass'y—Bracket & Pin (L.H.)
19	1643-47	Knob	46	4556-26-55	Deflector—Rear Foot Guard
20	2117-86	Ass'y—Upper Handle	47	1657-75	Bushing—Deflector Retaining
21	3712-83-01	Handle Lower	48	1509-35	*Bolt ($\frac{1}{4}$ -20 x $\frac{5}{8}$ Hex Hd.)
22	1605-575	Name Plate	49	2189-9-55	Ass'y—Missile Deflector
23	1538-19	*Nut ($\frac{1}{4}$ -20 Hex Lock)	50	1509-74	Bolt ($\frac{1}{4}$ -20 x $\frac{7}{8}$)
24	1018	*Washer—Lock ($\frac{1}{4}$ Split)	51	3699-105-55	Shroud—Blade Housing (Front) ..
25	2132-86-55	Ass'y—Bracket & Pin (R.H.)	52	1539-84	Nut—Shroud Retaining
26	2643-43	Knob—Adjust Lever	53	1616-525	Label—Catcher Bracket
27	2123-36	Ass'y—Rear Axle (R.H.)	54	2616-556	Label—Front Shroud
			55	1616-561	Label—Starter Housing

For Illustration—See Pg. 6.

*Standard Hardware Item—Purchase Locally

TO USE WASH OUT PORT

After mowing, place hose end (without nozzle) into opening located next to discharge chute. Using moderate water pressure, run engine at full throttle speed for about two minutes. This flushes out accumulations of grass clippings from underneath mower housing. **DO NOT** wash the top. It may be necessary to tilt the mower back on the rear wheels after washing to drain any water which may have accumulated on the top of the housing.



WARRANTY

We guarantee all parts against defects in material and workmanship for a period of one (1) year from the date of purchase when used for residential. 90 days for commercial.

We agree to repair or replace without charge to the original Purchaser, including labor, any part or parts upon examination by a Yard-Man Authorized Dealer to be defective within the guarantee period except the engine which is warranted separately by the manufacturer. **All transportation charges for replacement under this guarantee must be paid by the Purchaser.**

This guarantee will not apply to a unit which has been subjected to misuse, negligence, accident or to a unit which has been altered in any way.

YARD-MAN, INC.

1410 W. Ganson — Jackson, Michigan

Yard-Man reserves the right to make engineering changes without prior notification or responsibility to the Purchaser.